

## Expected Direction questions for Upcoming Exam

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### DIRECTION

**Directions ( 1-3): Study the following information and answer the questions below:**

From point A, Sachin moves towards 3meters west to reach point B. Then he takes a left turn and moves 4 meters to reach point C and then he takes the right turn to move 5 meters to reach point D, from there he takes a right turn of 6meters to point E.

1. What is the direction of E with respect to point A?

- a) East
- b) West
- c) South west
- d) North east
- e) North west

2. What is the shortest distance between point A and point C?

- a) 4
- b) 5
- c) 6
- d) 3
- e) None of these

3. If point F is 2meters south of point E, then what will be the distance between point A and point F?

- a) 6
- b) 7
- c) 8
- d) 9
- e) 4

**Directions ( 4 - 6): Study the following information and answer the questions below:**

A man facing west moves 5 meter towards his right to reach point P and takes a right turn of 4 meter to reach point Q, then he takes a right turn of 8 meter to reach point R. From point R he walks 3meters east direction to reach point S, Which is 3meters south of T.

4. What is the direction of R with respect to P?

- a) East
- b) West
- c) South east
- d) North east
- e) North west

5. What is the distance between Man's initial position and T?

- a) 6
- b) 8
- c) 9
- d) 7
- e) 5

6. What is the shortest distance between P and R?

- a)  $\sqrt{82}$
- b)  $\sqrt{81}$
- c)  $\sqrt{80}$
- d)  $\sqrt{83}$
- e)  $\sqrt{84}$

**Directions (7 - 9): Study the following information and answer the questions below:**

Mr.Prakash starts his journey from home, moves 5meter east and takes a left turn of 4 meters to reach the shop. Then he takes the right and walks 10meters and again he

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takes a right turn of 12meters temple. From the temple he walks 10 meters right and takes a left turn of 3meters to reach the office.

7. What is the direction of the temple with respect to Prakash's home?

- a) West
- b) South east
- c) North east
- d) North west
- e) East

8. What is the shortest distance between shop and the temple?

- a)  $\sqrt{256}$
- b)  $\sqrt{244}$
- c)  $\sqrt{248}$
- d)  $\sqrt{246}$
- e)  $\sqrt{242}$

9. What is the total distance covered by Mr.Prakash?

- a) 43
- b) 40
- c) 44
- d) 45
- e) 42

**Directions ( 10-12): Study the following information and answer the questions below:**

From point P, Sathya starts his travelling of 8m towards north direction and reaches point Q, which is 11m east of point R. From Q he takes a right turn of 6m to reach point S and then he takes left to move 7m to attain the destination point T.

10. What is the shortest distance between point P and S?

- a) 8
- b) 15
- c) 10
- d) 11
- e) 12

11. What is the direction of R with respect to T?

- a) East
- b) West
- c) North west
- d) North east
- e) South west

12. If Z is 5m east of point T, then the direction of Z with respect to P?

- a) East
- b) West
- c) South west
- d) North east
- e) North west

**Directions ( 13-15): Study the following information and answer the questions below:**

A is west of B, which is north of D and is south of E. D is east of C and B is west of F. G is southeast of B and east of D.(Consider all are equal distance)

13. What is the direction of C with respect to B?

- a) East
- b) West
- c) South west
- d) North east
- e) Can't be determined

14. What is the direction of E with respect to F?

- a) East
- b) West
- c) South west
- d) North east
- e) North west

15. What is the direction of G with respect to C?

- a) East
- b) West
- c) South west
- d) North east
- e) North west

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**Directions ( 16-18): Study the following information and answer the questions below:**

Village B is 4m west of village A & village E is 10m south of D. Village D is 8m west of C and village B is 6m south of C. Village E is 9m west of village F.

16. What is the direction of the F with respect to B?

- a) East
- b) West
- c) South east
- d) North east
- e) North west

17. What is the shortest distance between C and E?

- a)  $\sqrt{125}$
- b)  $\sqrt{144}$
- c)  $\sqrt{169}$
- d)  $\sqrt{164}$
- e)  $\sqrt{165}$

18. What is the direction of E with respect to A?

- a) East
- b) South west
- c) West
- d) North east
- e) North west

**Directions (19-21): Study the following information and answer the questions below:**

The medical shop is 15 meters north of the hospital, which is 10meters west of home. The bus stand is 20metre east of the railway station and 9 meters south of home. Also the airport is in the middle of the railway station and bus stand.

19. What is the direction of the airport with respect to the medical shop?

- a) North east
- b) South east
- c) South

d) North west

e) North

20. What is the shortest distance between the medical shop and bus stand?

- a) 23
- b) 24
- c) 26
- d) 29
- e) 27

21. What is the direction of the railway station with respect to home?

- a) North east
- b) South east
- c) South
- d) South west
- e) North

**Directions (22-24): Study the following information and answer the questions below:**

A person starts from point A, moves towards the east direction and walks 20km to reach point B. Then he turns left and moves 30km to reach point C and takes a right walk 20 km to reach point D. Then he takes right and walks 50km to reach point F. Point E is the midpoint of D & F.

22. What is the direction of point E with respect to point A?

- a) East
- b) West
- c) South west
- d) North east
- e) North west

23. What is the shortest distance between B and F?

- a)  $\sqrt{820}$
- b)  $\sqrt{800}$
- c)  $\sqrt{850}$
- d)  $\sqrt{830}$

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e)  $\sqrt{824}$

24. What is the direction of F with respect to C?

- a) South East
- b) West
- c) South west
- d) North east
- e) North west

**Directions (25-27): Study the following information and answer the questions below:**

Point A is 10m east of point B, which is 8m north of point C. Point E is 5m west of point C. Point F is 9m south of point E. Point G is 15m east of point F.

25. What is the direction of point E with respect to A?

- a) North west
- b) South west
- c) South east
- d) North east
- e) None of these

26. What is the shortest distance between B and E?

- a)  $\sqrt{93}$
- b)  $\sqrt{92}$
- c)  $\sqrt{89}$
- d)  $\sqrt{91}$
- e)  $\sqrt{95}$

27. If point D is 12m south of point A, then what is the distance between D and G?

- a) 4
- b) 7
- c) 6
- d) 5
- e) 9

**Directions (28-30): Study the following information and answer the questions below:**

Bharathi walks 25m towards north to reach point A then she turns right and walks 30m to reach point B. Then she turns right and walks 50m to reach point C. And she

turns left for a 20m walk to reach point D. Finally, she turns left and walks 50m to reach point E.

28. What is the direction of D with respect to Bharathi's starting point?

- a) South west
- b) North west
- c) South east
- d) North east
- e) None of the above

29. What is the total distance covered by Bharathi in the entire journey?

- a) 135
- b) 125
- c) 155
- d) 165
- e) 175

30. If F is the midpoint of E and D, then the shortest distance between F and Bharathi's starting point?

- a) 55
- b) 40
- c) 50
- d) 35
- e) 60

**Directions (31-35): Study the following information and answer the questions below:**

Selva starts moving from point A towards east of 10meters to reach point B. From B he takes the left turn and walks 15 meters to reach point C. Then he takes the right turn and walks 12meters to reach point D. From point D he walks 8meters right turn to reach point F. Then he takes a right turn to and walks 8meters point J. Also point E is the midpoint of C and D.

31. What is the shortest distance between point E and point F?

- a) 12
- b) 11

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- c) 10
- d) 9
- e) 8

32. If point H is 7meters south of point J then what is the distance between point A to point H?

- a) 12
- b) 14
- c) 16
- d) 18
- e) 20

33. Which of the following does not belong to the group ?

- a) AJ
- b) JD
- c) BE
- d) FB
- e) BJ

34. What is the direction of A with respect to D?

- a) South
- b) Southeast
- c) Southwest
- d) Northeast
- e) Northwest

35. If A starts moving in the north direction finally F is moving which direction to reach J?

- a) North
- b) East
- c) South
- d) West
- e) Southeast

**Directions (36-40): Study the following information and answer the questions below:**

Janu starts moving from point P toward north direction and walks 10meter to reach point Q. Then she takes left turn of 8meters to reach point R. Then she takes left turn and walks 5meters to reach point S. Then he takes a right turn of 9meters to reach point T. Then she took a left turn

and walks 12meters to reach point V. From point V she walks 9 towards east direction to reach point U.

36. What is the shortest distance between point V and point S?

- a) 14
- b) 15
- c) 16
- d) 17
- e) 18

37. Which of the following three points are arranged in the same vertical line?

- a) PQR
- b) TVU
- c) PRS
- d) RSU
- e) TPS

38. What is the total distance between point T and point U?

- a) 19
- b) 12
- c) 17
- d) 23
- e) 22

39. What is the direction of point V with respect to Q?

- a) South
- b) South east
- c) South west
- d) North east
- e) North

40. What is the direction of P with respect to U?

- a) North east
- b) South west
- c) North west
- d) South east
- e) None of the above

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41. Pavi is facing west direction. She takes left turn. Then she takes right turn. Then she takes right turn again. Then she takes a left turn. Then she takes a right. And again she takes a right turn. Finally in which direction she is facing now?

- a) East
- b) South
- c) North
- d) West
- e) None of these

42. In the early morning, Kavin and Ramesh are standing in the ground. Ramesh's shadow fell exactly on his left hand side. If they are facing each other, then Kavin is facing which direction?

- a) North
- b) West
- c) East
- d) South
- e) None of these

43. In a clock at 9pm, the minute hand points towards the south direction. In which direction does the hour hand face at 3pm?

- a) East
- b) West
- c) North
- d) South
- e) None of the above

44. In the evening, Ramya and Nivi are standing and opposite to each other on the ground. Nivi shadow fell on her left hand side. Then Ramya is facing which direction?

- a) North
- b) West
- c) East
- d) South
- e) None of these

45. Dhamu and Saravana are starting their journey from the same point in the opposite direction. First they move

10metre and both turn left. Finally Saravana faces north direction, then Dhamu faces which direction finally?

- a) East
- b) West
- c) South
- d) North
- e) None of these

**Directions (46-50): Study the following information and answer the questions below:**

P@Q means "P is 5m west of Q"

P#Q means "P is 3m east of Q"

P&Q means "P is 4m north of Q"

P%Q means "P is 6m south of Q"

46. In the expression G#H&J@K%L, G is in which direction with respect to L?

- a) North
- b) East
- c) north west
- d) South west
- e) None of these

47. If M&N#O%P@Q, what is the shortest distance between M and O?

- a) 6
- b) 5
- c) 4
- d) 3
- e) 7

48. If E&F#G%H@I, then E is in which direction and how far with respect to G?

- a) 4m, north
- b) 5m south east
- c) 5m, north east
- d) 4m, south west
- e) 5m, south



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49. If A% B#C&D, Then what is the distance between B and D?

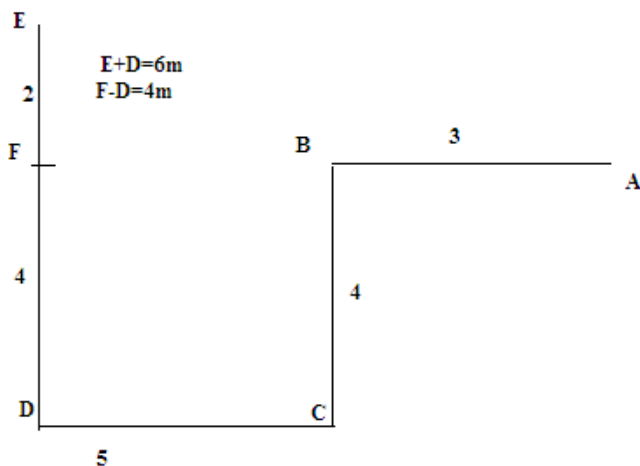
- a) 2
- b) 4
- c) 5
- d) 3
- e) 6

50. In the expression, U#V%W@X&Y then what is the direction of W with respect to Y?

- a) North
- b) East
- c) North west
- d) South west
- e) None of these

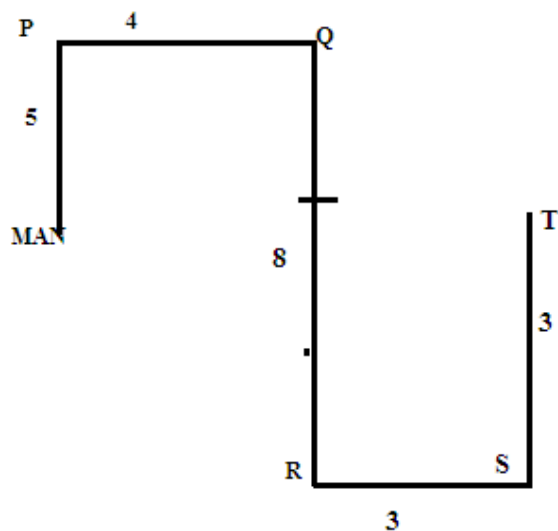
### ANSWERS WITH EXPLANATION:

Directions (1-3):



- 1. e North west
- 2. b  $\sqrt{(4^2+3^2)} = 5$
- 3. c (8)

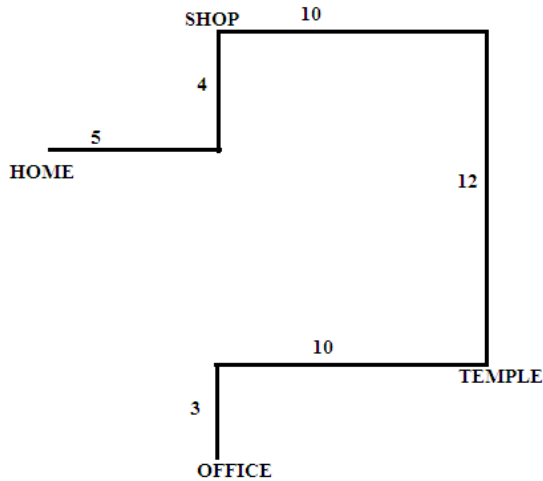
Directions (4-6):



- 4. c South east
- 5. d (7)
- 6. c  $\sqrt{(8^2+4^2)} = \sqrt{(80)}$

Directions (7-9):

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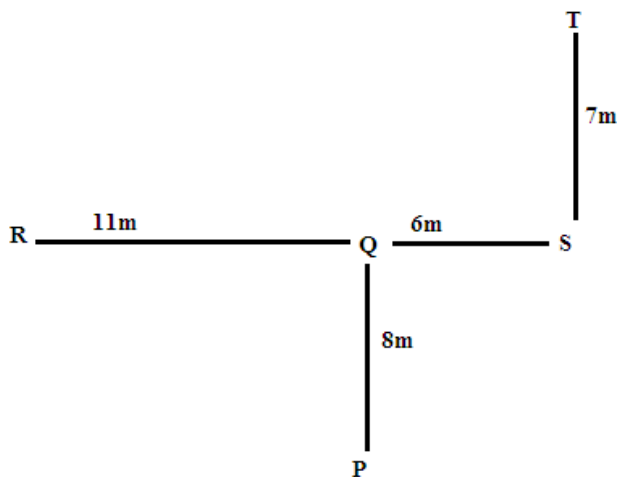


7. b South east

8. b  $\sqrt{(10^2+12^2)} = \sqrt{(244)}$

9. c (44)

Directions (10-12):

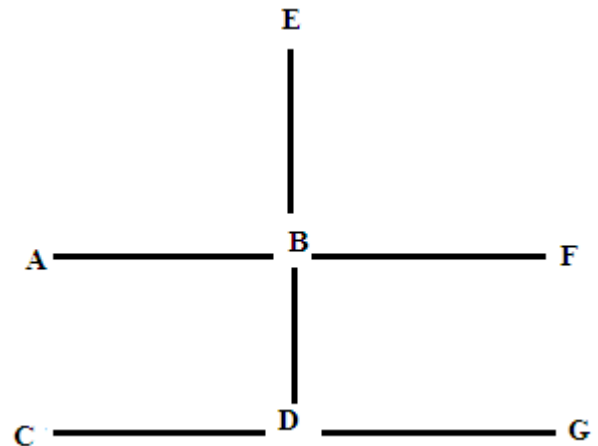


10. c (10))

11. e South west

12. d North east

Directions (13-15):

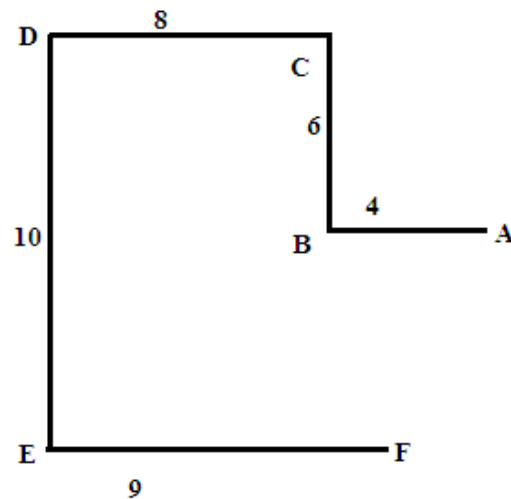


13. c South west

14. e North west

15. a East

Directions (16-18):



16. c South east

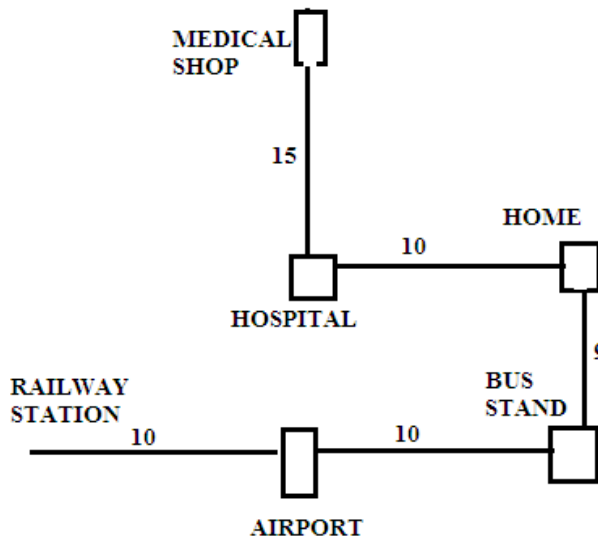
17. d  $\sqrt{(10^2+8^2)} = \sqrt{(164)}$

18. b South west

Directions (19-21):



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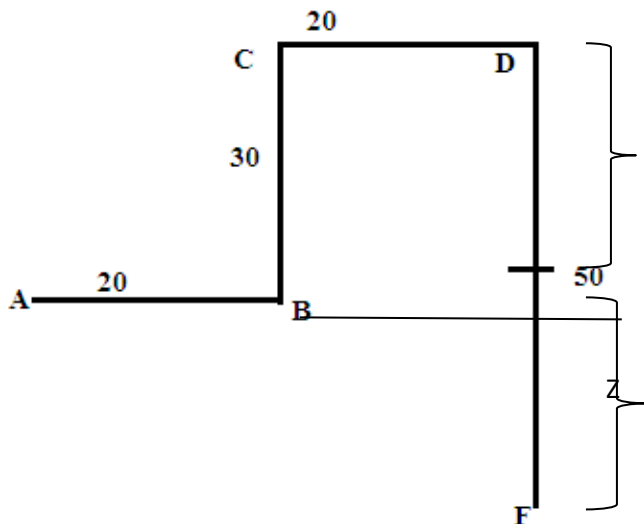


19. c South

20. c  $(26) \sqrt{(24^2+10^2)} = \sqrt{(676)}$

21. d South west

**Directions (22-24):**

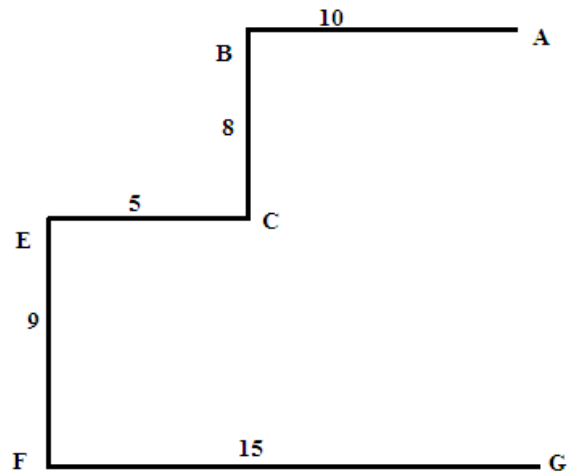


22. d North east

23. b  $\sqrt{(20^2+20^2)} = \sqrt{(800)}$

24. a South East

**Directions (25-27):**

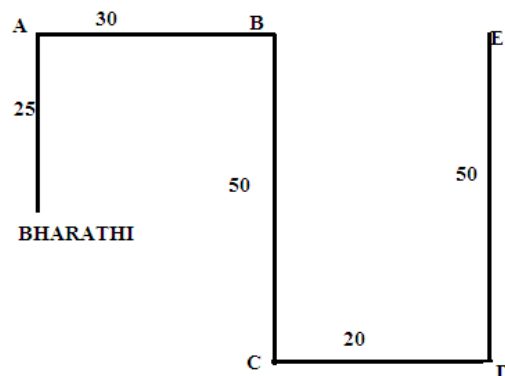


25. b South west

26. c  $\sqrt{(8^2+5^2)} = \sqrt{(89)}$

27. d (5)

**Directions (28-30):**



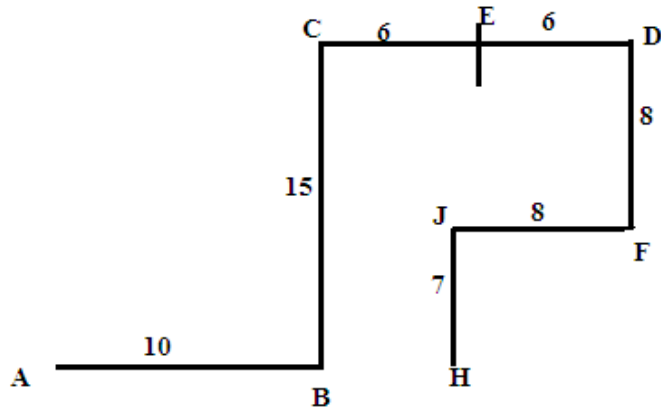
28. c South east

29. e 175

30. c (50)

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**Directions (31-35):**



31. c  $\sqrt{(8^2+6^2)} = \sqrt{(100)} \Rightarrow 10$

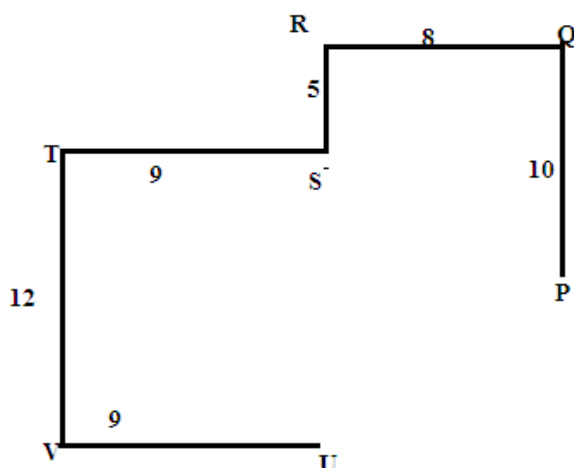
32. c (16)

33. d FB (only in FB first letter is northwest direction other options have first letter as southeast direction)

34. c South

35. c South

**Directions (36-40):**



36. b  $\sqrt{(12^2+9^2)} = \sqrt{(225)} \Rightarrow 15$

37. d RSU

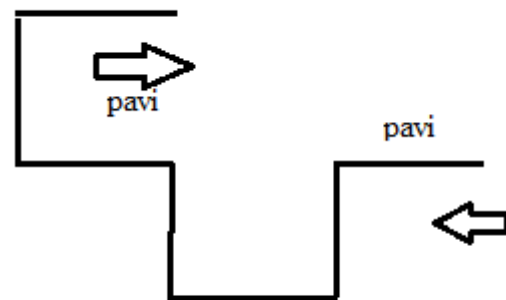
38. c (17)

39. c South west

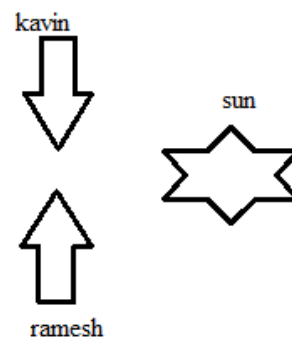
40. a North east

**Directions (45-50):**

41. a East

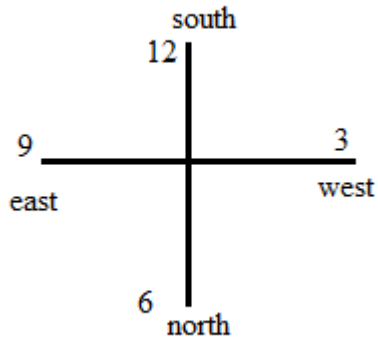


42. d South

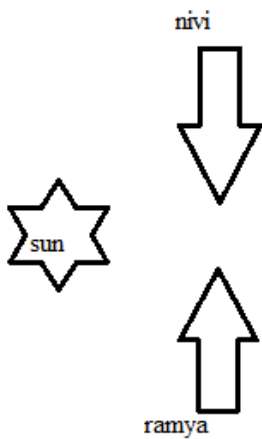


43. b West

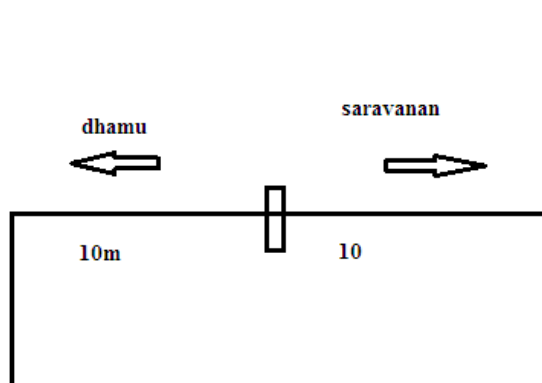
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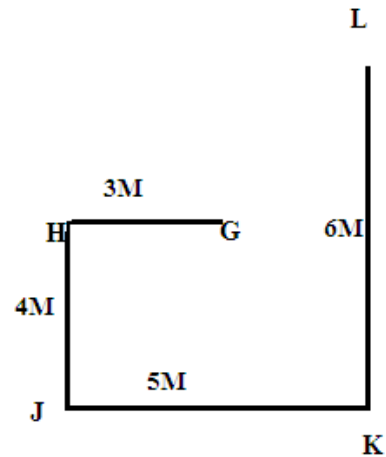
44. a North



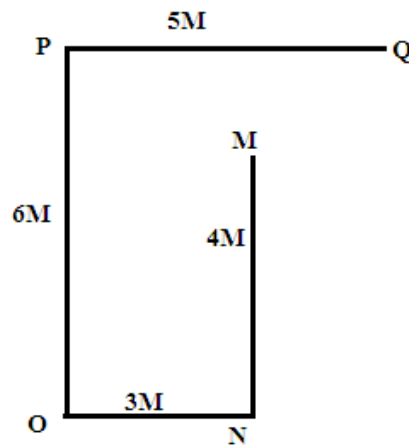
45. c South



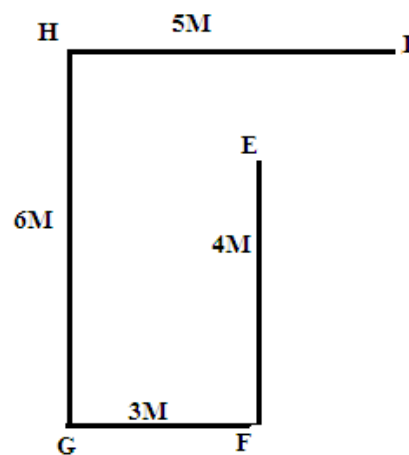
46. d South west



47. b (5)

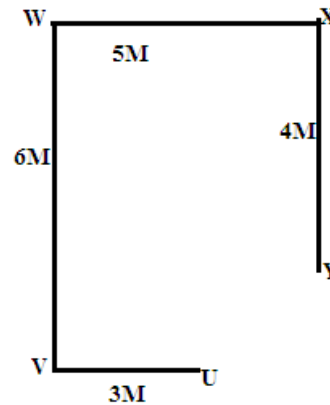
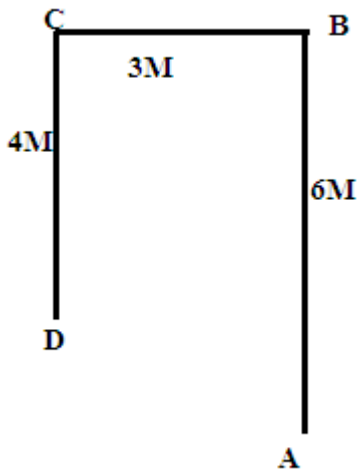


48. c ( 5m, north east)



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49. c (5)



50. c (North west)

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